

between the factories and the canal, giving a road 100 feet in width, and the balance of 50 feet for lines of railway connecting with the Grand Trunk Railway at Point St. Charles.

The large lot at the north end of the dam is reserved for a wheel-house for the Montreal Water Works. It is proposed that the city should acquire this lot, and erect a suitable building capable of extension when required, with rising mains from the new wheel-house, underneath the canal, to the nearest point of their aqueduct, thence following it on their own property to the present wheel-house, and uniting with the existing rising mains to the reservoir ;—The St. Louis Hydraulic Company renting to the city the necessary quantity of power for driving their wheels or the city by taking stock in the enterprise become a joint proprietor in the same, and in this manner securing for ever all the power received for their operations, and without any further payment of rent ; or on whatever other terms may be mutually agreed on. The water to be pumped up into the city, can be brought to the pumps in the new wheel-house, by suitable pipes, from the nearest point in the aqueduct, which will ensure its purity as at present ; in addition to this, a connection between the pump pits and the water in the large basin above the dam, can also be provided in case of accident or short supply in winter, from the aqueduct. The existing power at the present wheel-house could be rented by the Corporation to private parties, or the supply of water could be diverted into the St. Gabriel level of the Lachine canal, and give additional power at said Gabriel Lock, as well as at the foot of the Canal—the Corporation of course receiving the rents or amounts in full for the sale of the power, to parties purchasing or using it.

The manner in which it is proposed to develop the power on the island may be seen by reference to the plan.

The natural channel which divides the island into two unequal parts, is to be deepened and widened for a main tail race. The water passing from the mills and factories located on the smaller island will pass into this main tail race, and from thence into the river at the lower end of the island.

On the larger or south section of the island, a main head race will be carried from the upper end, where it may possess a width of 300 feet, gradually narrowing to 100 feet at the lower end ; at right